



MINIMUM WATER STORAGE TO PROVIDE PROTECTION FOR DWELLINGS AND OTHER STRUCTURES, WHERE ADEQUATE PUBLIC/PRIVATE WATER SUPPLY IS NOT AVAILABLE

NOTE: In areas where water can be supplied by pumps from a domestic source, such systems must be reviewed by the Fire Agency having jurisdictional approval.

TABLE NO. 903.3.2			
Building Square Feet	Gallons Per Minute Water Flow	Capacity Gallons	Duration Minutes
Up to 1,500	250	5,000	20
Over 1,500	250	10,000	40
When exposure distance is one hundred feet (100') or less from adjacent property, the following minimum fire flow shall be adhered to. Increase in water storage may be required by the Chief, depending on the square footage of the exposed structure. When protecting exposures within 100 feet or less, the minimum flow duration shall not be less than two (2) hours unless otherwise approved by the Chief.			
EXPOSURE DISTANCE		MINIMUM FIRE FLOW	
Over 100 Ft.		250 Gallons Per Minute	
31 Ft. – 100 Ft.		500 – 750 Gallons Per Minute	
11 Ft. – 30 Ft.		750 – 1000 Gallons Per Minute	
10 Ft. or less		1000 – 1500 Gallons Per Minute	

If buildings are contiguous, a minimum of 2,500 gallons per minute shall be required.

Water Tank Location:

1. Tank elevation shall be equal to or higher than the fire department connection on the premises. Regardless of domestic use, all tanks shall be equipped with a device that will ensure that the tank contains the designated amount of water for fire flow duration as determined by the fire department. Tank size may be increased to serve multiple structures on a single parcel.
2. Supply outlet shall be at least 4 inches in diameter from the base of the tank to the point of outlet at the fire department connection. The fire department connection shall be at least one 4-inch National Standard Thread (male), reduce to one 2 ½ inch National Standard Thread (male). Additional outlets may be required.
3. Location of fire department outlet to be determined on the plot plan when submitted to the fire department. Consideration will be given to topography, elevations, and distance from structures, driveway access, prevailing winds, etc.
4. The outlet shall be located along an access roadway and shall not be closer than 50 feet nor further than 150 feet from the structure.
5. All exposed tank supply pipes shall be of an alloy or other material listed for above ground use. Adequate support shall be provided.
6. Water storage tanks shall be constructed from materials approved by the Fire Marshal and installed per manufacturer recommendations.
7. The Chief may require any necessary information to be submitted on a plot plan for approval.
8. Vessels previously used for products other than water shall not be permitted.

Fire Protection Water Tank Installation Standards

Water Tanks Must Meet Setbacks Required in the County Zoning Ordinance

